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TITLE: ACRYLIC SHRINKABLE FIBER AND
PILE CLOTH BY USING THE SAME
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ABSTRACT:

PROBLEM TO BE SOLVED: To provide an acrylic shrinkable fiber having a flat cross sectional shape and also having a high shrinking function even by stretch-treating under a condition of giving a high stretching magnitude and also giving a dyeing treatment, and a pile cloth obtained by using the fiber as the fiber constituting a short pile part.

SOLUTION: This acrylic shrinkable fiber is a synthetic fiber containing an acrylic copolymer (A) and characterized by capable of being dyed at $\leq 80^{\circ}\text{C}$ temperature, and having a function of shrinking by 10 to 40% range shrinking rate under the dry heat of 130°C even after the dyeing and 3 to 20 flatness RA expressed by the following formula (1) of the fiber cross sectional surface. Preferably the polymer constituting the fiber is obtained by mixing (A) 30 to 99 wt.% acrylic copolymer with (B) 1 to 70 wt.% copolymer consisting of an acrylic acid ester and other copolymerizable vinyl monomers, and the pile cloth by using the same is also provided. Formula (1): the flatness: $RA = WL/WS$ [wherein, WL is the length of its long axis; WS is the length of its short axis. and also RA is an average value of the flatness from 10 pieces of fibers extracted randomly].

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